

Summary of Bill of Quantities for Works

Bill No.	Description	Price
1	Preliminary and General	\$0
2	Miscellaneous Cast-In-Place Concrete	\$0
3	Greywater Tanks, Sewer, and Greywater Drain Piping	\$0
4	Water Piping, Wells, and Water Storage Tank	\$0
5	Power Supply	\$0
6	Miscellaneous Site Items	\$0
	Sub-total	\$0

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.

Bill No. 1 Preliminary and General

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
1.01		Contractor's Mobilization Compensation in full for the cost of establishing plant, equipment, materials and personnel on site to the satisfaction of the Engineer for the Contract.	LS	1		\$0
1.02		Contractor's Demobilization. Compensation in full for the cost of removing plant, equipment, facilities and personnel from the site, including restoration of the Area to a satisfactory condition as approved by the Engineer for the Contract.	LS	1		\$0
1.03	C-10	Site Demolition	LS	1		\$0
1.04	C-20 - C-23	Site Clearing/ Rough Grading	LS	1		\$0
1.05	C-20 - C-23	Site Fill and Fine Grading	cu. m	3504		\$0
1.06	C-20 - C-23	Site Drainage Piping, 150 mm diameter corrugated HDPE pipe.	m	68		\$0
Total						\$0

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.

Bill No. 2 Miscellaneous Cast-in-Place Concrete

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
2.01	C-10 - C-13 & C-30	150mm Depth Reinforced Concrete Sidewalk/Walkway/Assembly Area/Bike Parking Area. Works include base material and compaction, control joints.	sq. m	2096		\$0
2.02	C-10 - C-13 & C-30	150mm Depth Reinforced Concrete Driveway/Parking Area. Works include base material and compaction, control joints.	sq. m	1013		\$0
2.03	U-93	Reinforced Concrete Spill Pad for Water Tank - 1M x 1M x .4M	LS	1		\$0
2.04	C-10 - C-13 & C-30	150 x 150mm Reinforced Concrete Curb. Includes drain pipes through curb where shown.	m	665		\$0
2.05	E-10	2.36 x 1.55 x 0.20 m Reinforced Concrete Pad for Transformer	LS	1		\$0
Total						\$0

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.

Bill No. 3 Greywater Tanks, and Sewer/Greywater Drain Piping

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
3.01	U-60 - U-62	Sanitary Influent Pump Station including hatches, pumps, and controls as shown on Sheet U-60 through U-62. Includes shoring and dewatering.	LS	1		\$0
3.02	U-72	4.41 x 30.00 x 0.25 m Reinforced Concrete Pad for WWTP, including pumping and disposal of groundwater.	LS	1		\$0
3.03	U-70	WWTP - 100mm Schedule 40 PVC Sludge Connection, including heat tracing	LS	1		\$0
3.04	U-70	WWTP - 144 m ³ package plant, including installation and commissioning	ea	1		\$0
3.05	U-70	Operating and maintaining the WWTP for a year following commissioning of the plant (Ref. Specification 44 41 12).	LS	1		\$0
3.06	U-70	WWTP- 100mm SDR 17 HDPE pipe and Sch 80 PVC pipe for influent forcemain connection from pump station to WWTP, including 100mm influent valve and heat tracing	LS	1		\$0
3.07	U-70 - U-72	Reinforced Concrete Sanitary Effluent Pump Station including hatches, pumps, and controls as shown on Sheet U-70 through U-72	LS	1		\$0
3.08	C-30	Treated effluent forcemain, 100 HDPE, installed from effluent pump station, through perimeter wall, to the existing concrete drainage trench, per wall penetration detail on C-30.	LS	1		\$0
3.09	U-14	Treated Effluent Forcemain, 100 HDPE, Installed in existing concrete drainage trench, from the upstream end near the school to the connection with the existing drainage trench along Darul Aman Rd. Includes installing the effluent pipe in the existing casing across Darul Aman Rd.	m	288		\$0
3.10	U-50 - U-51	GW-01: Reinforced Concrete Greywater Storage Tank, including hatches, pumps and controls. Includes shoring and dewatering.	LS	1		\$0
3.11	U-52 - U-53	GW-02: Reinforced Concrete Greywater Storage Tank, including hatches, pumps and controls. Includes shoring and dewatering.	LS	1		\$0
3.12	U-10 - U-11	50mm Diameter SDR 17 HDPE Pipe for drainage from Greywater Tank, installed in trench with compacted backfill	m	14		\$0
3.13	U-10 - U-11	80mm Diameter SDR 17 HDPE Pipe sewer and grey water service connections including fittings, installed in trench with compacted backfill.	m	33		\$0
3.14	U-10 - U-13	110mm Diameter SDR 17 HDPE sewer and grey water service connections including fittings, installed in trench with compacted backfill	m	41		\$0
3.15	U-10 - U-13	150mm Diameter corrugated HDPE Pipe for Sewer Installed in trench with compacted backfill, depth of 1-2 meters to pipe inv elev.	m	221		\$0

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.

3.16	U-10 - U-13	150mm Diameter corrugated HDPE Pipe for Sewer Installed in trench with compacted backfill, trench depth greater than 2 meters to pipe inv elev.	m	72	\$0
3.17	U-10 - U-13	150mm Diameter corrugated HDPE Pipe for Greywater Installed in trench with compacted backfill, trench depth of 1- 2 meters to pipe inv elev.	m	66	\$0
3.18	U-10 - U-13 & U-22	Reinforced Concrete Sewer Manhole with Frame, Grate, Ladder Rungs, and all appurtenances. 1-2 meters from top of lid to floor of MH.	ea.	5	\$0
3.19	U-10 - U-13 & U-22	Reinforced Concrete Sewer Manhole with Frame, Grate, Ladder Rungs, and all appurtenances. Greater than 2 meters from top of lid to floor of MH.	ea.	4	\$0
3.20	U-10, U-11, U-20	Sanitary Cleanout	ea.	2	\$0
3.21	U-10, U-11, U-20	Backflow Prevention Device	ea.	2	\$0
Total					\$0

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.

Bill No. 4 Water Piping, Well, and Water Storage Tank

Item No.	Description	Unit	Qty.	Unit Price	Price
4.01	U-90 - U-93 65 m ³ Potable Water Tank including internal overflow pipe, piping connections, level switches, roof hatch, ladders, and pipe supports integrated into the tank structure.	LS	1		\$0
4.02	U-90 - U-93 Water piping (steel or ductile iron) to serve the water tank. Includes pipe supports at base of tower, gate valves, heat tracing, and connections to water tank.	LS	1		\$0
4.03	U-30 - U31 Well construction including drilling, surface seal casing, casing, intake screen, filter pack, and well testing	LS	1		\$0
4.04	U-30 - U31 Well Pump and controls, discharge piping, valving, and appurtenances, including heat tracing in well enclosure.	LS	1		\$0
4.05	A-10, S-08 Well Pump security enclosure, including metal cover plate and access hatch.	LS	1		\$0
4.06	U-40 Chlorine Disinfection Unit, including the dilution water supply line and the chlorine solution feed line.	ea.	1		\$0
4.07	A-02-A-10 S-3 - S-7 Well Pump house--all structural and architectural work (excluding louvers), including the sidewalk and stairs.	LS	1		\$0
4.08	E-30 Well Pump house-- all electrical and instrumentation work (excluding that provided under the well pump and chlorination system specifications) as shown on Dwg E-30.	LS	1		\$0
4.09	M-01 Well Pump house-- Mechanical equipment (heaters, fans) and louvers as shown on dwg M-01	LS	1		\$0
4.10	U-10 - U-13 & U-23 Water Service Connections per detail on dwg U-23, including gate valve, valve box, and connecting to existing stub-out.	ea.	7		\$0
4.11	U-13, U-20 Non-Freeze Hose Bibb	ea.	1		\$0
4.12	U-10 - U-13 50mm Diameter SDR 17 HDPE Water Main including fittings, installed in trench with compacted backfill and all necessary thrust blocks and pipe support	m	77		\$0
4.13	U-10 - U-13 100mm Diameter SDR 17 HDPE Water Main including fittings, installed in trench with compacted backfill and all necessary thrust blocks and pipe support	m	232		\$0
4.14	U-10 - U-13 150mm Diameter SDR 17 HDPE Water Main including fittings, installed in trench with compacted backfill and all necessary thrust blocks and pipe support	m	77		\$0
4.15	U-10 - U-13 Buried Gate valves w/ valve box and 1x1m square concrete pad	ea.	7		\$0
4.16	S-10 Elevated Water Tank: Foundation including excavation, concrete and reinforcement steel	LS	1		\$0
4.17	S-12 - S-17 Elevated Water Tank: Structural Steel for Tower, including pipe supports integrated into tower structure.	kg	38555		\$0

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.

Total **\$0**

Bill No. 5 **Power Supply**

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
5.01	E-02, E-20	Electrical Duct bank Handholes as shown on Sheet U-01	ea.	19		\$0
5.02	E-02, E-03, E-20	Electrical Ductbank trenches, including all raceway and conductors between the secondary unit substation and the service disconnects and panels as indicated in the electrical drawings.	LS	1		\$0
5.03	U-90, U-91	Electrical conduit and wiring to serve the heat tracing systems on the water lines on the water tower, as well as the level control switches in the water tank.	LS	1		\$0
5.04	E-03, E-30	Manual Transfer Switch (30-Amp)	ea.	1		\$0
Total						\$0

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.

Bill No. 6 Miscellaneous Site Items

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
6.01	C-10 - C-13, C-31 - C-32	Chain Link Security Fence including all related appurtenances as shown on Sheets C-10 to C-13	m	116		\$0
6.02	C-10 - C-13, C-31 - C-32	Chain Link Security Fence Single Swing Gate as shown on Sheets C-10 to C-13	ea.	3		\$0
6.03	C-10 - C-13, C-31 - C-32	Chain Link Security Fence Double Swing Gate as shown on Sheet C-13	ea.	1		\$0
6.04	C-12, C-13	Parking Space Pavement marking - 100mm Painted Yellow Stripe as shown on Sheets C-12, C-13	m	102		\$0
6.05	C-12 & C-30	3 x 0.96 m square tube steel fabricated bicycle rack as shown on Sheet C-30	LS	1		\$0
Total						\$0

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.